7. ABSTRACT

The disclosed techniques are as shown below. The subject of the invention is to provide a crypto-processing method capable to confront an attack, which intentionally causes an erroneous operation and takes out secret information to be done against a device which performs a crypto-processing inside the device such as an IC card.

The solution means for such an attack is shown below. A ciphertext C is received through the I/O port on an IC card, etc. (step 601), the ciphertext C is stored on a RAM (step 602), a decryption process of the ciphertext C is performed (step 603), and the processing result Z is stored on a RAM (step 604). For the processing result Z, an encryption process is executed (step 605), and the processing result W and the original plaintext C are compared with each other (step 606). When the processing result W coincides with the original plaintext C, the plaintext Z is output to the I/O port (step 608), and if not, a reset is effected (step 607).